INTERNATIONAL SEARCH REPORT

International Application No PCI/IB2004/051175

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01L21/60 H01L23/485								
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED								
Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01L								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic d	ata base consulted during the international search (name of data bas	se and, where practical, search terms used						
EPO-Internal, WPI Data, PAJ								
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.					
Υ	US 6 232 563 B1 (KIM SEONG JIN E 15 May 2001 (2001-05-15) cited in the application	1						
х	column 4, line 24 - line 62; figu	2,7						
Y	US 5 087 578 A (ENDO KAZUO ET AL)		1					
Х	11 February 1992 (1992-02-11) column 1, line 33 - line 52; figu	res 1A,1B	3-5					
X	US 2002/048924 A1 (LAY MING-YI E 25 April 2002 (2002-04-25) cited in the application	T AL)	3,6					
A	paragraph '0024!; figures 4A-4F US 5 358 902 A (VERHAAR ROBERTUS AL) 25 October 1994 (1994-10-25) column 5, line 14 - line 28	D J ET	1-7					
Further documents are listed in the continuation of box C. Patent family members are listed in annex.								
*Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international fifing date but later than the priority date calimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone value of comment is taken alone or other means *Y* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone value of the claimed invention cannot be considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone value of the claimed invention cannot be considered novel or cannot be considered novel or cannot be considered novel or cannot b								
Date of the actual completion of the international search Date of mailing of the international search report								
17 January 2005		25/01/2005						
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Stirn, J-P						

INTERNATIONAL SEARCH REPORT

nformation on patent family members

International Application No Per/IB2004/051175

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6232563	B1	15-05-2001	KR KR	171099 B: 225398 B:	
US 5087578	Α	11-02-1992	JP JP JP	1647634 C 3009616 B 63081948 A	13-03-1992 08-02-1991 12-04-1988
US 2002048924	A1	25-04-2002	TW JP US	464927 B 2002118138 A 2004048202 A	21-11-2001 19-04-2002 1 11-03-2004
US 5358902	A	25-10-1994	GB DE DE EP JP JP KR	2233494 A 69018884 D: 69018884 T2 0405660 A2 2776960 B2 3034539 A 157980 B3	2 07-12-1995 2 02-01-1991 2 16-07-1998 14-02-1991